

# State of Utah

# Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA Division Director JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

April 4, 2007

John Spencer Simplot Phosphates 9401 North Highway 191 Vernal, Utah 84078-7802

Subject: Surety Estimate, Simplot Phosphates, Vernal Phosphate Mine, M0470007, Tasks

134, 1313, and 1402, Uintah County, Utah

Dear Mr. Spencer:

The Division has reviewed the surety amount for the Vernal Phosphate Mine, and the new surety amount, escalated to 2009 dollars, is \$4,893,000.00. This includes the final release of 159.2 acres as proposed in October 2004 and May 2006.

The Division realizes this is a substantial increase from your current surety amount of \$2,336,000.00, but please keep in mind that the surety was last examined in 2001 and that it was only escalated to 2004 dollars.

Enclosed are copies of the spreadsheets used in calculation of the surety. If you desire to schedule a meeting to discuss these figures, please contact Paul Baker at 801-538-5261.

Questions about submitting the surety should be directed to Beth Ericksen at 801-538-5318. Please furnish the surety by May 7, 2007. You will also need to submit a revised reclamation contract, and you should contact Ms. Ericksen for information in this regard.

The Division sincerely appreciates the cooperation you have shown during the surety revision process.

Sincerely,

Susan M. White

Mining Program Coordinator Minerals Regulatory Program

Suran M. White

SMW:PBB:pb

Enclosure: Bond calculation spreadsheets cc: Stan Perkes, State BLM Office

Mary Ann Wright DOGM
Beth Ericksen DOGM

 $P:\GROUPS\MINERALS\WP\M047-Uintah\M0470007-Simplot\final\ltr-bond-04022007.doc$ 

## RECLAMATION SURETY ESTIMATE

S.F. Phosphates Ltd. Company

M/047/007

filename m47-7may01.wb3

Vernal Phosphate Operations

Uintah County, Utah

Last Update page "estimate" PAGE NUMBER:

Prepared by Utah Division of Oil, Gas & Mining (AAG)

#### **Estimate Details**

-This estimate is based on information from the SF Estimate of April 2001

-Information supporting unit costs is on a separate spreadsheet page.

-The estimate for demolition of facilities is on a separate spreadsheet page.

MINING PANEL DISTURBANCE					
472	2 acres		days; acres	\$/HR; \$/acre	\$
project manager			236.0	68.75	129,800
contouring D9N, 100 ft, 1.5 ft depth	2	acre/day	236.0	331.30	625,494
topsoil spreading 637E P-P, 6 inch depth	3.9	acre/day	121.0	481.28	465,978
seeding & fertilizing - DH4	29.4	acre/day	16.1	134.40	17,262
seed mix - drill seed		acre>	472	113.69	53,662
fertilizer		acre>	472	38.00	17,936
Total					1,310,132
		\$2,776	per acre		

#### PARTIALLY RECLAIMED MINING DISTURBANCE

-This "partially reclaimed" section is for mine disturbances which have been regraded & topsoil replaced, but not yet seeded.

283.99	acres		days; acres	\$/HR; \$/acre	D .
project manager			9.7	68.75	5,313
contouring D9N, 100 ft, 1.5 ft depth	2	acre/day	142.0	331.30	376,344
topsoil spreading 637E P-P, 6 inch depth	3.9	acre/day	72.8	481.28	280,367
seeding & fertilizing - DH4	29.4	acre/day	9.7	134.40	10,386
seed mix - drill seed		acre>	284	113.69	32,287
fertilizer		acre>	284	38.00	10,792
Total					715,487
		CO E40			

\$2,519 per acre

# LANDFILL - VERIFY TASKS

-Ultimate closure of this Class IIIb landfill must satisfy Div. of Solid & Hazardous Waste.
-Final closure requires a 2-foot cover of borrow material graded to match the surrounding topography.

	7.5 acres		days; acres	\$/HR; \$/acre	\$
project manager			3.8	68.75	2,063
contouring D9N, 100 ft, 1.5 ft depth	2 a	acre/day	3.8	331.30	9,939
topsoil spreading 637E P-P, 1 ft depth	1.9 a	acre/day	3.9	481.28	15,198
seeding & fertilizing - DH4	29.4 a	acre/day	0.3	134.40	274
seed mix - drill seed	а	acre>	8	113.69	853
fertilizer	а	acre>	8	38.00	285
Total					28,612
		\$3.815	per acre		

#### **FUTURE MINING**

Projected disturbance for 3 years of future mining (through 2009) as shown on maps submitted by the operator.

	156.1	acres		days; acres	\$/HR; \$/acre	\$
project manager				78.1	68.75	42,928
contouring D9N, 100 ft, 1.5 f	t depth	2	acre/day	78.1	331.30	206,864
topsoil spreading 637E P-P,	6 inch depth	3.9	acre/day	40.0	481.28	154,108
seeding & fertilizing - DH4		29.4	acre/day	5.3	134.40	5,709
seed mix - drill seed			acre>	156	113.69	17,747
fertilizer			acre>	156	38.00	5,932
	Total					433,287
			\$2,776	per acre		

#### **SAG MILL & SHOP**

-SAG Mill (15 acres) & Mine Shop (6.2 acres)

21.2 acres		days; acres	\$/HR; \$/acre	\$
project manager		5.4	68.75	2,990
ripping - D9N, 0.4 mph 3	15 acre/day	6.7	331.30	17,840
topsoil spreading 637E P-P, 6 inch depth	3.9 acre/day	5.4	481.28	20,930
seeding & fertilizing - DH4 2	9.4 acre/day	0.7	134.40	775
seed mix - drill seed	acre>	21	113.69	2,410

fertilizer

Total

acre>

21

38.00 45,750

\$2,158 per acre

#### MAIN OFFICE & MILL - PLANT FACILITIES AREA

- -Earthwork & revegetation tasks for the Main Office & Mill area after structure demolition.
- -Demolition of facilities is described on a separate spreadsheet page.
  -Original 1984 reclamation estimate did not include topsoil tasks at these facilities.

24	acres		days; acres	\$/HR; \$/acre	\$
project manager			7.6	68.75	4,191
ripping - D9N, 0.4 mph	3.15	acre/day	7.6	331.30	20,196
topsoil spreading 637E P-P, 6 inch depth	3.9	acre/day	0.0	481.28	0
seeding & fertilizing - DH4	29.4	acre/day	0.8	134.40	878
seed mix - drill seed		acre>	24	113.69	2,729
fertilizer		acre>	24	38.00	912
Total					28,905
		\$1,204	per acre		

#### UNPAVED ROADS

- -These roads are identified on the map labelled Figure 4 in the April 2001 submission.
- -Original 1984 reclamation estimate did not include topsoil tasks for roads.

4	2 acres		days; acres	\$/HR; \$/acre	\$
project manager			21.0	68.75	11,550
contouring D9N, 100 ft, 1.5 ft depth	2	acre/day	21.0	331.30	55,658
topsoil spreading 637E P-P, 6 inch depth	3.9	0	0.0	481.28	0
seeding & fertilizing - DH4	29.4	acre/day	1.4	134.40	1,536
seed mix - drill seed		acre>	42	113.69	4,775
fertilizer		acre>	42	38.00	1,596
Total					75,115
		\$1,788	per acre		

#### PAVED ROADS

- -These roads are identified on the map labelled Figure 4 in the April 2001 submission.
- -Original 1984 reclamation estimate did not include topsoil tasks for roads.

13.1	acres		days; acres	\$/HR; \$/acre	\$
project manager			4.2	68.75	2,288
contouring D9N, 100 ft, 1.5 ft depth	2	acre/day	6.6	331.30	17,360
ripping - D9N, 0.4 mph	3.15	acre/day	4.2	331.30	11,024
topsoil spreading 637E P-P, 6 inch depth	3.9	acre/day	0.0	481.28	0
seeding & fertilizing - DH4	29.4	acre/day	0.4	134.40	479
seed mix - drill seed		acre>	13	113.69	1,489
fertilizer		acre>	13	38.00	498
Total					33,138
		\$2,530	per acre		

#### TAILINGS POND - MISCELLANEOUS AREAS

-Miscellaneous areas associated with the tailings as described in Figure 6 in the April 2001 submission.

60.9	acres		days; acres	\$/HR; \$/acre	\$
project manager			19.3	48.25	7,464
ripping - D9N, 0.4 mph	3.15	acre/day	19.3	331.30	51,247
topsoil spreading 637E P-P, 6 inch depth	3.9	acre/day	15.6	481.28	60,123
seeding & fertilizing - DH4	29.4	acre/day	2.1	134.40	2,227
seed mix - drill seed		acre>	61	113.69	6,924
fertilizer		acre>	61	38.00	2,314
Total					130,299
		\$2 140	per acre		

### TAILINGS POND - IMPOUNDED MATERIAL

This acreage represents the maximum tailings area within 5 years, i.e. by 2012.

	410 acres		days; acres	\$/HR; \$/acre \$	
project manager			13.9	48.25	5,383
aerial seed application	15	\$/acre	410.0	15.00	6,150
initial seed mix - nurse crop	10.53	\$/acre	410.0	10.53	4,317
initial fertilizer	38	\$/acre	0.0	0.00	15.580

regrading D8N - 10(100'dia x10') -DOGM	9,691	су		0.0	0.68	6,590
discing nurse crop - DH4	29.4	acre/day		13.9	104.65	11,675
applying seed & fertilizer - DH4	29.4	acre/day		13.9	134.40	14,994
mulch application - DH4 w/attachment	34.9	acre/day		11.7	107.17	10,072
discing mulch in - DH4	29.4	acre/day		13.9	134.40	14,994
seed mix - drill seed		acre>		410	113.69	46,613
fertilizer		acre>		410	38.00	15,580
mulch @ 1 ton/acre - alfalfa		acre>		410	100.00	41,000
Total						192,949
		\$471	per acr	e		

# PIPELINE

-Maximum area re-disturbed due to decommissioning or repair of the pipeline at final reclamation.

2.5 ac	cres		days; acres	\$/HR; \$/acre	\$
project manager			1.3	48.25	483
contouring D9N, 100 ft, 1.5 ft depth	2	acre/day	1.3	331.30	3,313
seeding & fertilizing - DH4	10	acre/day	0.3	134.40	269
seedmix - drill seed		acre>	2.5	113.69	284
fertilizer		acre>	2.5	38.00	95
Total					4,444
		\$1,777	per acre		

ONDING SUMMARY	ACRE		\$	\$/acre		
anel B	1	472.0	1,310,132		2,776	
anel C		284.0	715,487		2,519	
andfill		7.5	28,612		3,815	
uture Mining		156.1	433,287		2,776	
AG Mill & Shop		21.2	45,750		2,158	
lant Facilities		24.0	28,905		1,204	
npaved Roads		42.0	75,115		1,788	
aved Roads		13.1	33,138		2,530	
ailings Pond - Miscellaneous Areas		60.9	130,299		2,140	
ailings Pond - Impounded Material		410.0	192,949		471	
ipeline		2.5	4,444		1,777	
emolition			1,040,974			
SUB	TOTAL		4,039,092			
lobilization - 7 pieces of equip			7,000			
SUB	TOTAL		4,046,092			
DD 10% Contingency		_	404,609			
SUB	TOTAL		4,450,702			
DD site monitoring - 3 years		_	15,000			
SUB	TOTAL		4,465,702			
SCALATION FOR 3 YEARS @ 3.2%/YR			442,572			
TOTAL IN 2009	9-\$		\$4,893,274			
ROUNDED TOTAL IN 20	09-\$		\$4,893,000			

RECLAMATION SURETY ESTIMATE

S.F. Phosphates Ltd. Company Vernal Phosphate Operations Prepared by Utah Division of Oil, Gas & Mining (AAG)

filename m47-7may01.wb3 M/047/007

Last Update 37019

Uintah County, Utah page "unit\_costs PAGE NUMBER:

# MASTER LISTING - UNIT COSTS

-Changes to unit costs on this page will ripple through the estimate spreadsheet.

task description	\$/hr	CY/acre	CY/hr	\$/acre	hr/acr	e acre/day	\$/day
project manager	68.75	NA	NA	NA	NA	NA	550.0
Means Heavy Construction Cost Data 2007, 013113, project manager, n	ninimum \$	2750/wk	=> \$550/	day			
laborer	44.75	NA	NA	NA	NA	NA	358.0
Means Heavy Construction Cost Data 2007, Crew B-6, including O & P							
contouring - D9R dozer, 100 ft push, 1.5 ft avg. depth	331.30	2,420.0	630.3	1272.01	3	.84 2.08	3 2,650.4
DOGM calculations using Rental Rate Blue Book Second Half 2006 for C	Cat D9R &	Means 2	007 Crev	v B-10B			
topsoil spreading - 637E P-P scraper, 1/4 mi. one-way, 6 in depth	481.28	806.7	396.5	979.15	2	.03 3.93	3,850.24
DOGM calculations using Rental Rate Blue Book Second Half 2006 for C	Cat 637E F	P-P & Mea	ans 2007	Crew B-10	В		
application of seed & fertilizer - D5G XL Series III dozer (1996)	134.4	0.0	0	36.57	0	.26 29.40	1,075.20
Rental Rate Blue Book Second Half 2006 for Cat D5G XL at 4.0 mph plu	s trailer to	wed diese	el mulche	r & Means	2007 Cr	rew B-10B	
seed mix - nurse crop	0	0.0	0	10.53	NA	NA	0.00
Stevenson International Seed quote of 2-28-07 for SF @ rate of 5.0 lb/ac	re						
seed mix - drill seed rate	0	0.0	0	113.69	NA	NA	0.00
Stevenson International Seed quote of 2-27-07 for SF @ rate of 13.75 lb/	/acre						
seed mix - broadcast seed rate (1.5 x drill seed rate)	0	0.0	0	170.54	NA	NA	0.00
Stevenson International Seed quote of 2-27-07 for SF @ rate of 20.63 lb/	'acre						
ertilizer	0	0.0	0		NA	NA	0.00
ntermountain Farmers Association quote 3-16-00 in SF submission of M	arch 2000	averagin	g to \$38.	47/acre			
ipping - D9R dozer , 0.4 mph, multi-shank, 3 adj. parallel	257.00	0.0	0	652.78	2.	.54 3.15	2,056.00
DOGM calc., Rental Rate Blue Book Second Half 2006 for Cat D9R, mult	ti-shank ri <sub>l</sub>	opers, 3 a	dj. paralle	el & Means	2007 C	rew B-10B	
liscing - D5G XL dozer	134.4	0.0	0	36.57	0.	26 29.40	1,075.20
Rental Rate Blue Book Second Half 2006 for Cat D5G XL at 4.0 mph plus	s trailer to	wed diese	l mulchei	r & Means 2	2007 Cre	ew B-10B	
nulching - D5G XL dozer	134.4	0.0	0	30.81	0.	18 34.90	1,075.20
Rental Rate Blue Book Second Half 2006 for Cat D5G XL @ 5.0 mph plu	s trailer to	wed diese	l mulche	r & Means	2007 Cr	rew B-10B	
08N dozer - regrading	249.88			NA	NA	NA	1,999.04
DOGM calc using Rental Rate Blue Book Second Half 2006, 150 ft push,	1 ft denth	Means 2	007 Creu	R-108 (SA	attach	ed calc show	), (CCC.O.)

RECLAMATION SURETY ESTIMATE		filename m47-7may01.wb3		
S.F. Phosphates Ltd. Company	M/047/007	Last Update 37019		
Vernal Phosphate Operations	Uintah County, Utah	page "demolition" PAGE NUMBER:	MEANS U	NIT COSTS
Prepared by Utah Division of Oil, Gas & M	fining (AAG)		type	total w/O&P
-This spreadsheet is based on the Figure	8 Demolition Cost Estimate prep	pared by SF Phosphates in April 2001.	steel	0.18
-Means Heavy Construction Cost Data 20	01 unit costs for demolition of la	rge urban projects was adjusted for 5 mile haul.	concrete	0.25
-Unit cost for steel from Means 15055-300	0-3600 HVAC demolition, heavy	items, adjusted to 65%.	masonry	0.19
			mix	0.19
				4

								tons steel	455		
BUILD	ING DIMENS	IONS		BLDG	CONST.	CONCRETE	CONCRETE		CONC.	BLDG.	TOTAL
<b>BUILDINGS &amp; STRUCTURES</b>	L (ft)	W (ft)	H (ft)	VOL (cf)	TYPE	1FT THICK	2 FT THICK	REMOVAL	DEMO.	DEMO.	COST
						AREA (sf)	AREA (sf)	COST(\$/sf)	\$	\$	\$
mine shop	173.25	61.49	40	426,126		10,653		2.25	23,970	80,964	104,93
mine oil shed	41.99	30.09	16	20,216			6-inch thick	2.25	1,421	3,841	5,26
mine fuel storage	42.49	17.52	16		concrete		6-inch thick	2.25	837	2,978	3,81
stacker shed	18.82	16.04	16	4,830			6-inch thick	2.25	340	918	1,25
feeder breaker MCC	20.29	15.48	16	5,025			6-inch thick	2.25	353	955	1,30
feeder breaker tool building	17.2	15.24	16	4,194			6-inch thick	2.25	295	797 22,750	1,09
stacker shed	0	0	0	50	tons steel	0		2.25	U	22,750	22,75
SAG mill building	146	92	65	873,080		0	13,432		60,444	157,154	217,59
SAG warehouse	51.02	34.05	16	27,796		1,737		2.25	3,909	5,281	9,19
SAG switch gear	31	14.12	12	5,253			6-inch thick	2.25	492	945	1,43
SAG MCC	39.26	30.83	16	19,366			6-inch thick	2.25	1,362	3,680	5,04
steady head tank	99.6	22.56	16		concrete		6-inch thick	2.25	2,528	8,988	11,51
portable water building	12.3	10.01	25	3,078			6-inch thick	2.25	139	585	72
apron feeder tunnel	0	0	0		concrete	2,500		3.03	7,575 0	11 275	7,57
reject conveyor gallery	0	0	0	25	tons steel	0		2.25	U	11,375	11,37
office-lab warehouse	260.25	63.88	24	398,994	mix	12,469		2.25	28,055	75,809	103,86
rubber shop	130.71	41.53	24	130,281	steel		6-inch thick	2.25	6,107	23,451	29,55
electric shop	103.12	51.51	24	127,481	steel		6-inch thick	2.25	5,976	22,947	28,92
core building	37.16	32.94	16	19,585			6-inch thick	2.25	1,377	3,721	5,09
old office building	68.83	49.2	12	40,637	mix		6-inch thick	2.25	3,810	7,721	11,53
lay down area	0	0	0	0		0		0	0	0	
mill											
hydrosizer building	104.05	30.7	80	255,547	steel	0	3,194	4.5	14,375	45,998	60,37
primary flotation building	154.87	83.66	60	777,385	steel	0	12,956	4.5	58,304	139,929	198,23
pump station	99.44	83.85	40	333,522	steel	0	8,338	4.5	37,521	60,034	97,55
scavenger grind	151.2	96.04	30	435,637	steel	0	14,521	4.5	65,346	78,415	143,76
scavenger flotation	77.09	55.62	30	128,632	steel	0	4,288	4.5	19,295	23,154	42,44
scavenger section MCC	24	36	12	10,368	mix	0	864	4.5	3,888	1,970	5,85
west tee pee	0	0	0		tons steel	0		2.25	0	9,100	9,10
east tee pee	0	0	0		tons steel	0		2.25	0	18,200	18,20
conc. tee pee	0	0	0	14	tons steel	8,000		3.03	24,240	6,370	30,61
tanks											
no. 1 slurry tank	0	0	0	16	tons steel	2,000		2.25	4,500	7,280	11,78
no. 2 slurry tank	0	0	0	16	tons steel	2,000		2.25	4,500	7,280	11,78
no. 3 slurry tank	0	0	0	16	tons steel	2,000		2.25	4,500	7,280	11,78
no. 4 slurry tank	0	0	0	10	tons steel	970		2.25	2,183	4,550	6,73
no. 5 slurry tank	0	0	0	10	tons steel	970		2.25	2,183	4,550	6,73
reclaim water thickener	0	0	0	5	tons steel	0		2.25	0	2,275	2,27
slurry surge tank	0	0	0		tons steel	0		2.25	0	7,280	7,28
reclaim water tank	100	50	20	100,000	concrete	11,000		2.25	24,750	25,000	49,75
fresh water tank 1	0	0	0		tons steel	0		2.25	0	2,275	2,27
fresh water tank 1	0	0	0		tons steel	0		2.25	0	2,275	2,27
potable water building	18	24	16	6,912			6-inch thick	2.25	486	1,313	1,79
ratliff spring building	30	30	12	10,800		2,250		2.25	5,063	2,052	7,11
water well a	12	10	10	1,200			6-inch thick	2.25	135	228	36
water well b	12	10	10	1,200			6-inch thick	2.25	135	228	36
water well c	12	10	10	1,200		***************************************	6-inch thick	2.25	135	228	36
water well d	12	10	10	1,200			6-inch thick	2.25	135	228	36
water well e	12	10	10	1,200			6-inch thick	2.25	135	228	36
water well h	12	10	10	1,200		200000000000000000000000000000000000000	6-inch thick	2.25	135	228	36
catch dam pumphouse	12	14	10	1,680	mix	84	6-inch thick	2.25	189	319	50
truck scale	75	20	0	0	concrete	1,500		2.25	3,375	0	3,37
scale house	12	10	10	1,200	mix	60	6-inch thick	2.25	135	228	36
concentrate bins	0	0	0	5	tons steel	0		2.25	0	2,275	2,27
jet belt	350	0	0		tons steel	0		2.25	0	6,370	6,37
conveyor gallery 18	75	0	0	19	tons steel	0		2.25	0	8,645	8,64
conveyor gallery 18a	35	0	0	9	tons steel	0		2.25	0	4,095	4,09
conveyor gallery 3	150	0	0	38	tons steel	0		2.25	0	17,290	17,29
conveyor gallery 4	200	0	0	50	tons steel	0		2.25	0	22,750	22,75
conveyor gallery 13	200	0	0	50	tons steel	0		2.25	0	22,750	22,75
conveyor gallery 13a	25	0	0	6	tons steel	0		2.25	0	2,730	2,73
conveyor gallery 14	125	0	0		tons steel	0		2.25	0	14,105	14,10

**Total Demolition Costs** 

1,418,994

Average Utah City index

0.7336

Adjusted Total Demolition Costs \$1,040,974

# RECLAMATION COST BASIS

**REVEGETATION TASKS** Parameters Used in Calculations for File No. DOZER DH4 XL SERIES III

last revision

37018

**DETAILS/ASSUMPTIONS** 

CAT Edition 31 handbook lacks info for DH4 model, all specifications here are for D4C Series III Dozer

-Cat D4C XL Series III: 80 hp, 16,573 lbs; Cat DH4 LGP Series III (1996) 81 hp.

-Cat dozer 4P: straight blade width 13 ft 1 inch, angled blade 14 ft 6 inch,

-Cat dozer D4C XL: drawbar pull versus ground speed: 4.0 mph at 6.8 lbs, 2.0 mph at 13.5 lbs.

-ASSUME width of pass for disk is straight blade width plus 1.5 feet on each side, i.e. total width of 16 feet

-ASSUME width of pass for drill seeder and disk width are the same at 12 feet.

-ASSUME an overlap of 1/2 foot between passes, giving an effective pass width of 11.5 feet'

-ASSUME average speed for disking and drill seeding is 4.0 mph, and mulching is 5.0 mph

-ASSUME disk/drill cost is same as trailer mounted mulcher Finn B70, 7 tph, \$10/hr rental, \$3.35/hr operating

-one acre = 43,560 SF; use ~400' x 110'block

-ASSUME every 400' requires 0.30 min to pivot, turn, and raise & lower as needed

-ASSUME work efficiency of 50 minutes/hour => 83%

DH4 Time/Pass =(dist/speed)+add on	DIST	SPEED	ADD	MIN/PASS
NOTE: SPEED IN MPH	400.00	5.00 TIME	0.30	1.21 PASS/HR
#Pass/Hour = time/(MIN/PASS)		50.00 FT/PASS		41.35 SF/PASS
Sq-ft of effective coverage =(length/pass)*(F	Γ/PASS)	11.50		4600.00
Acreage covered = (SF/PASS)/(SF/acre)			ACRE/PASS	0.11
Acreage covered/Hr =(ACRE/PASS)*(PASS/	HR)		ACRE/HR	4.37
Hrs to cover one acre = 1 /(ACRE/HR)			HRS/ACRE	0.23
		34.9	ACRE/8HR-	DAY

	BOOK 30/00

	EQUIP	OPER	
\$/hr, D4H LGP Series III (1996) EROPS(pg 9-4	49.00	15.50	
Finn trailer mounted mulcher B70, 7 tph,(pg 17	10.00	3.35	
Sub-totals	59.00	18.85	
Mult by regional factor (page 9-vii)	0.87	1.00	
Sub-totals	51.04	18.85	
Sub-total Equipment & Operating Cost			69.89 (\$/H
FROM MEANS HEAVY CONSTRUCTION CO.		001	
Crew B-10B, 1-Equip Operator (med), hourly c	ost		42.55 (\$/H

TOTAL COST PER HOUR TOTAL APPLICATION COST PER ACRE

112.44 (\$/HR) \$25.75 (\$/ACRE)

current speed used =

5.00 mph

**RECLAMATION TREATMENTS D4H**